

CURRICULUM

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CURR HIST

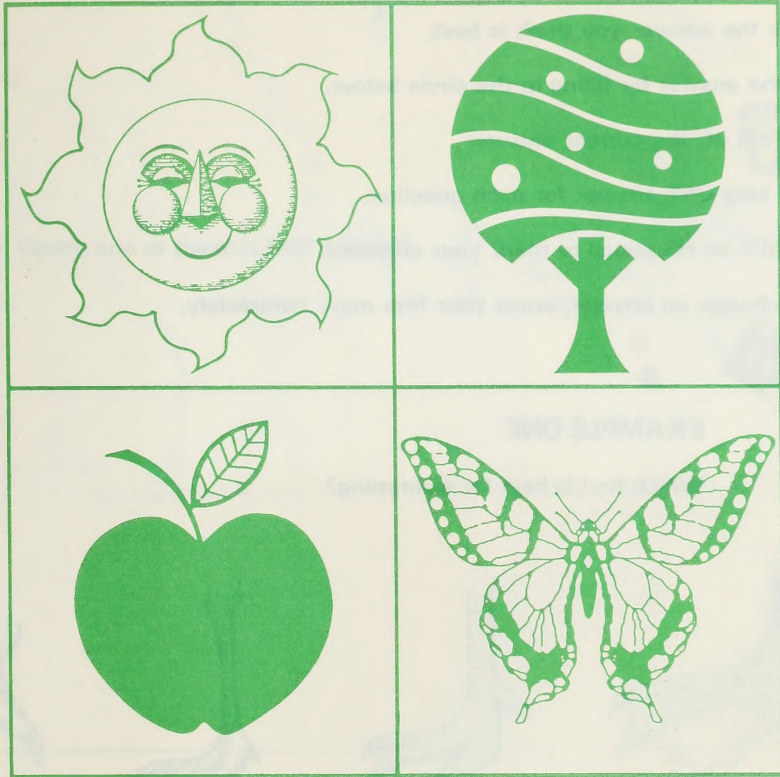


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# GRADE 3 SCIENCE

## Achievement Test



June 1987

## Student Evaluation

**Alberta**  
EDUCATION

63674



DO NOT WRITE IN THIS AREA

**DIRECTIONS:**

Please read each question carefully.

Choose the answer you think is best.

Mark the answer by filling in the circle below,  
or in front of, the correct answer.

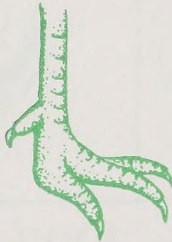
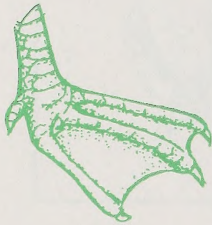
MARK only ONE answer for each question.

Use ONLY an HB pencil to mark your answers.

If you change an answer, erase your first mark completely.

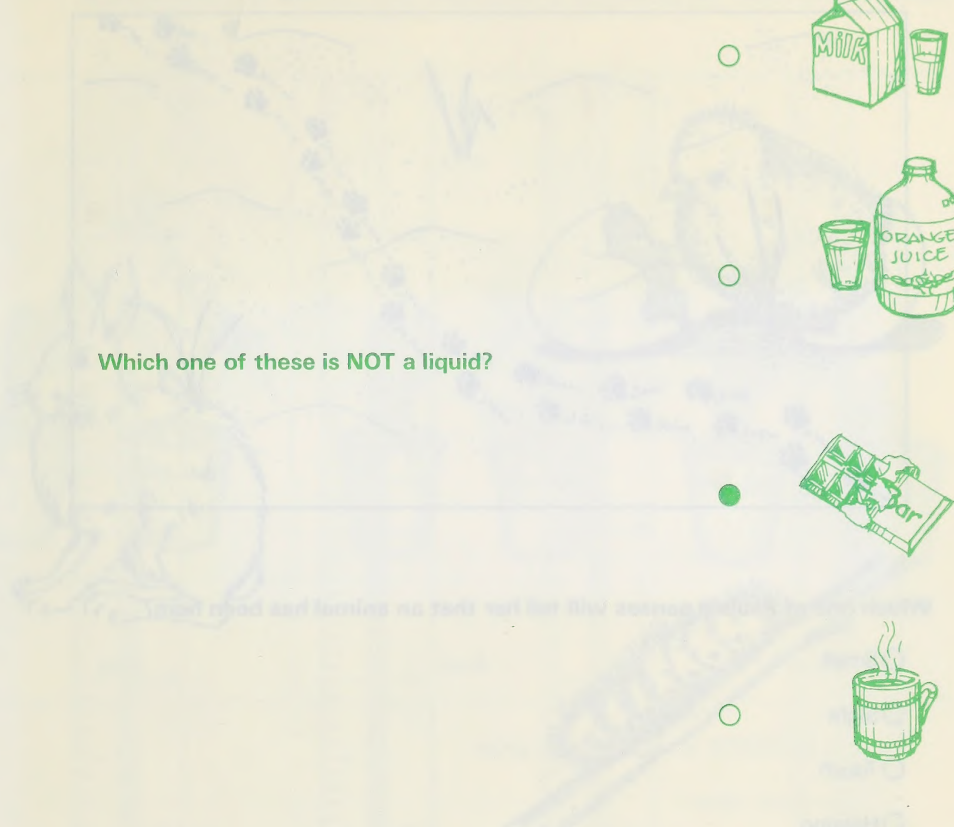
**EXAMPLE ONE**

Which foot is best for swimming?



The answer in this example is the first foot. The circle below the correct answer has been filled in.

**EXAMPLE TWO**



Which one of these is NOT a liquid?

The third object (the chocolate bar) is not a liquid. The circle in front of the chocolate bar has been filled in.

**SECTION 1**  
**YOU HAVE 25 MINUTES TO COMPLETE THIS SECTION**

Do not turn the page until your teacher tells you to do so.



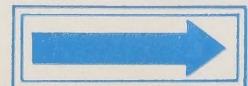
1.



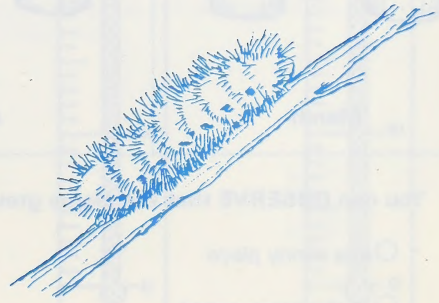
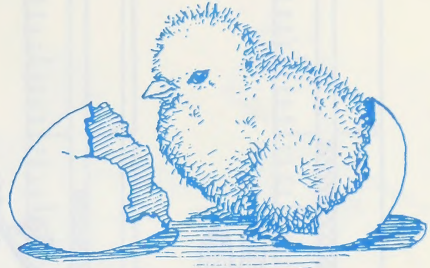
Which one of Paula's senses will tell her that an animal has been here?

- Smell
- Sight
- Touch
- Hearing

Go on to the next page



2.



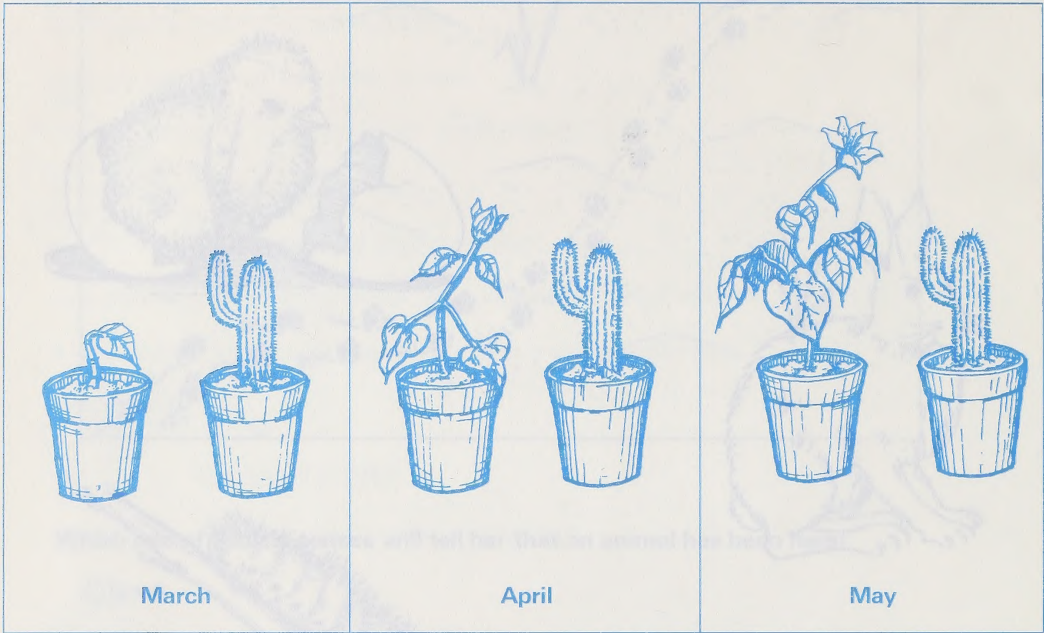
The senses that are best used to learn about these animals would be

- sight and touch
- touch and smell
- hearing and sight
- smell and hearing

Go on to the next page

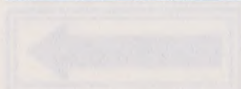


3. These pictures show the growth of a leafy plant and a cactus for three months.

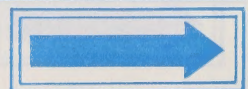


You can **OBSERVE** that the plants grew

- in a sunny place
- at the same speed
- in different places
- at different speeds

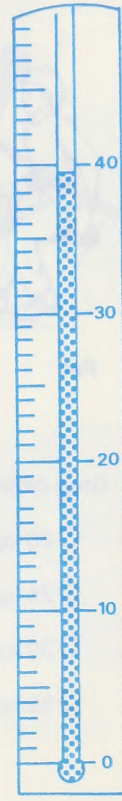
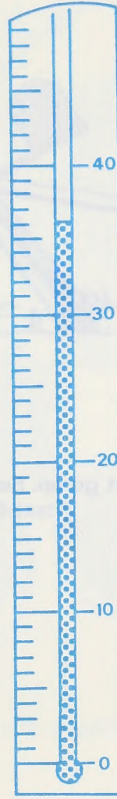


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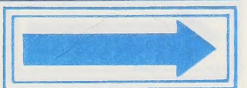




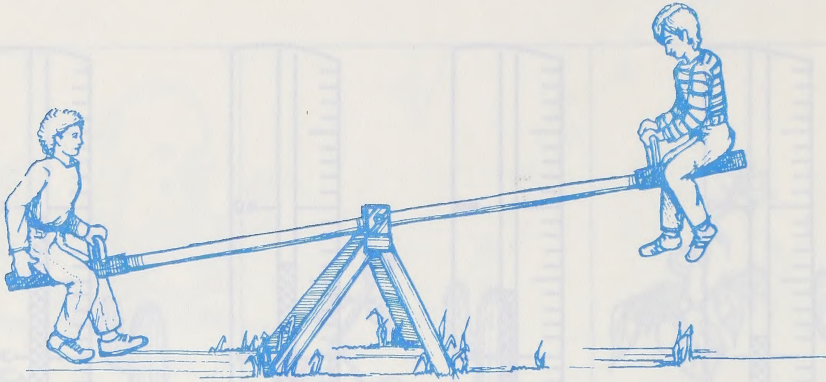
4. Which thermometer shows  $36^{\circ}\text{C}$ ?



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5.



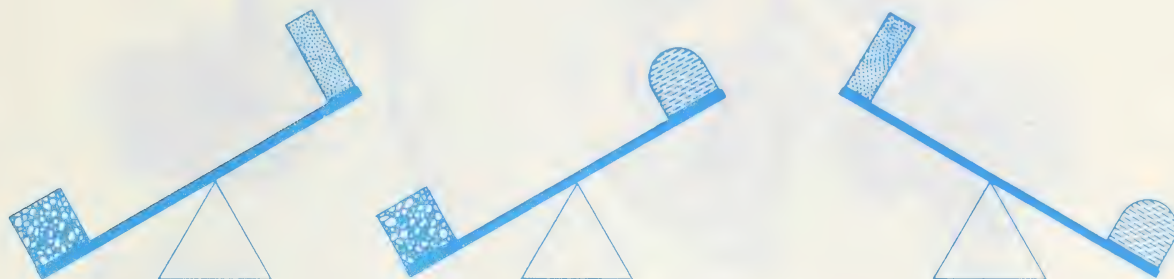
Pat

Greg  
30 kg

Greg cannot make Pat go up. Estimate Pat's mass.

- 20 kg
- 25 kg
- 30 kg
- 35 kg

6. John put different objects on a balance.



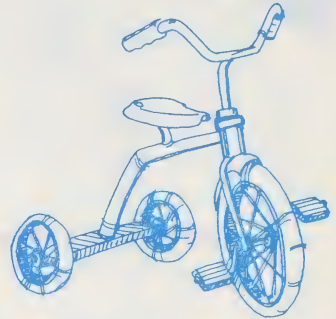
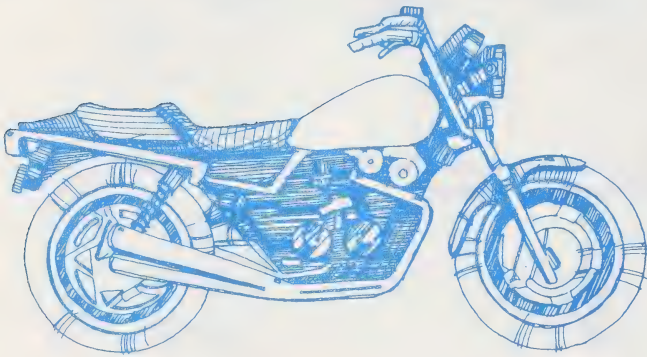
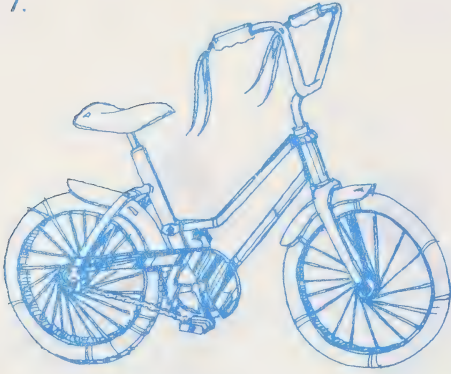
Which shows the order from heaviest to lightest?



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7.



The objects above belong in the same group because they all have **AT LEAST**



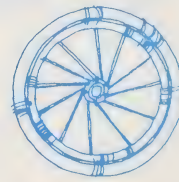
one set of handlebars



one chain



one set of pedals

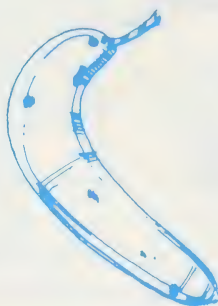


one wheel

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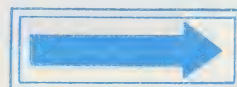
8.



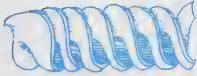
These objects belong together because they are

- sweet
- snacks
- fruits
- vegetables

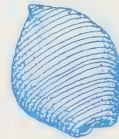
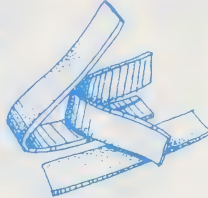
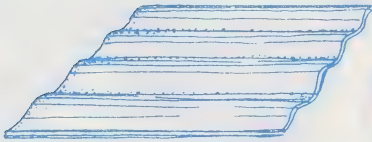
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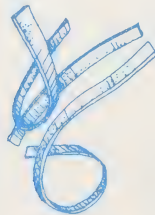
9. These objects belong in group A.



These objects **DO NOT** belong in group A.



Which object belongs in group A?




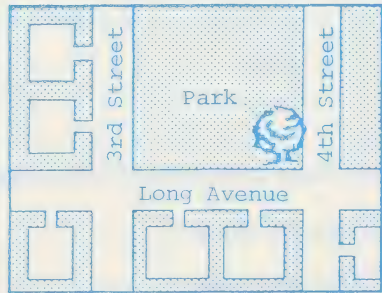
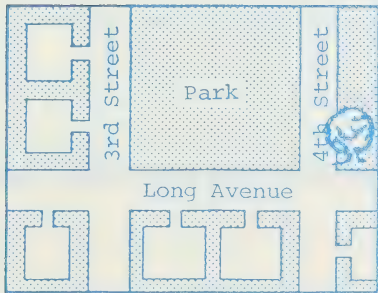
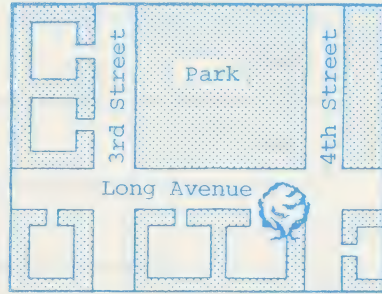
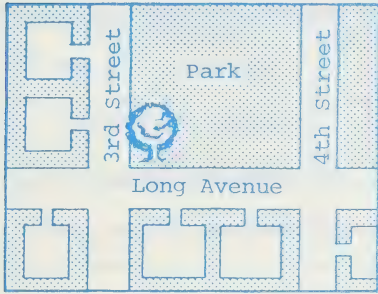
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10. Lee drew a map of his neighborhood.



There is a tree at the corner of Long Avenue and 4th Street. The tree is in the park. Which map shows where Lee should draw a  to show the tree?



Go on to the next page



11. The symbol for millimetre is

- M
- m
- Mm
- mm

12. Some animals need to be cared for when they are very young. Others do not.

Name of animal	Parents' care needed	Mother's milk needed
ant	✓	
cat	✓	✓
bee	✓	
mouse	✓	✓
snake		
robin	✓	

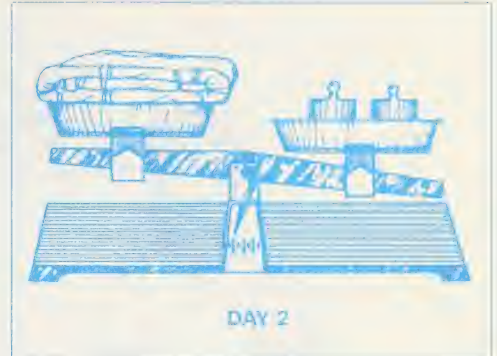
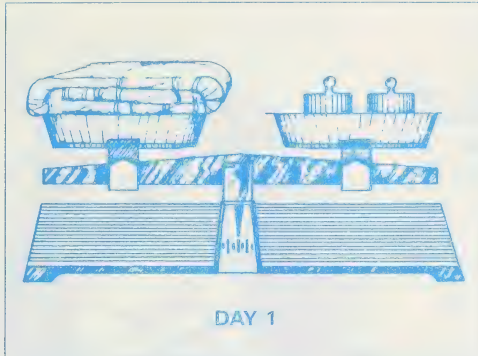
Which three animals need their parents' care and do not need their mother's milk?

- Ant, cat, mouse
- Ant, bee, snake
- Ant, bee, robin
- Mouse, snake, robin





13. Sally placed a wet towel on a pan balance. The next day she found that the position of the pans had changed.

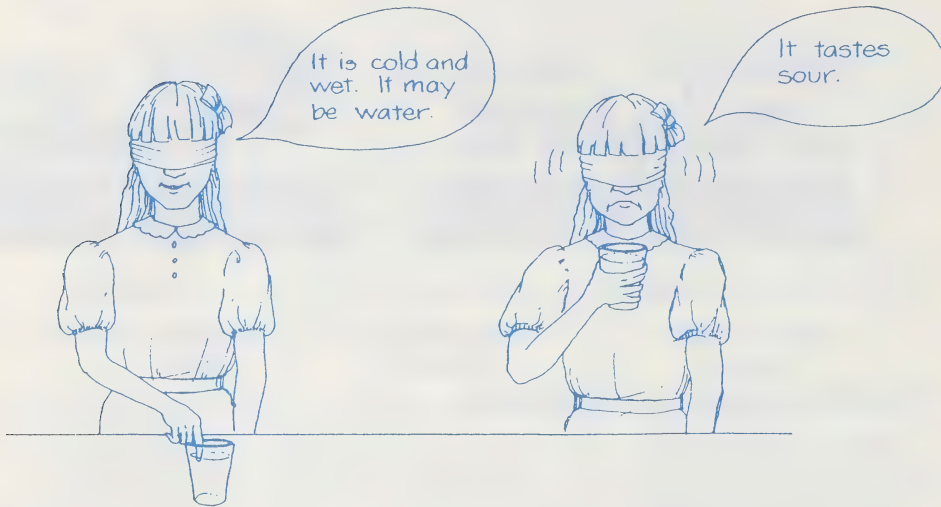


Why did the position of the pans change?

- The water evaporated.
- The towel was heated.
- The weights were taken away.
- More weights were added to the pan.



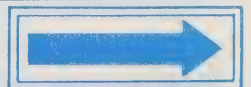
14. Jenny tested a liquid.



The liquid is likely

- milk
- water
- grape juice
- lemon juice

Go on to the next page



15. Jill saw something at the bottom of a fish bowl.  
It was small and brown.  
She thought it was a rock.  
Then she saw it move.



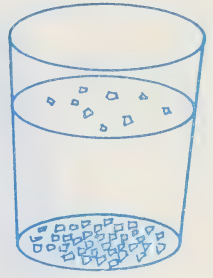
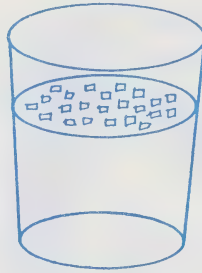
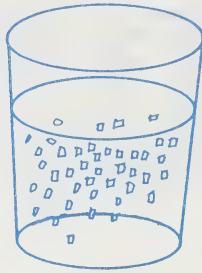
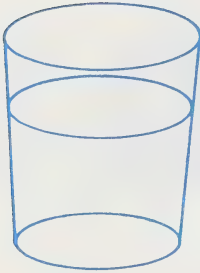
Jill most likely saw a

- rock
- snail
- goldfish
- sand lump

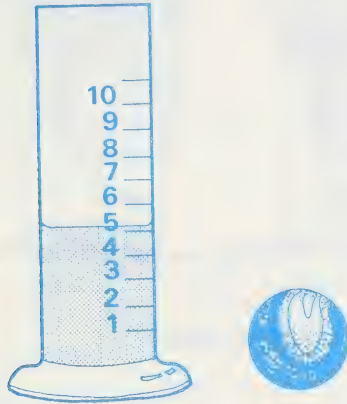
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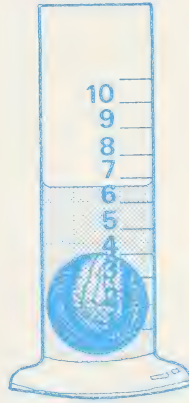
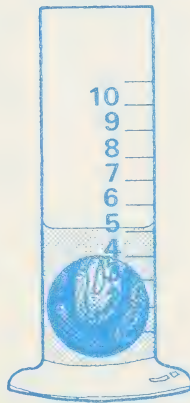
16. Kim put a teaspoon of sugar into a glass of hot water.  
She stirred it for a minute.  
Which picture shows what would happen to the sugar?



17. Look at this picture.



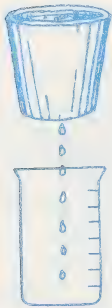
What will happen when the marble is added to the water?



Go on to the next page



18. Lee made a hole in the bottom of a cup. He filled the cup to the top with water. He watched the water drip into a jar. This is what he saw.



start



1 min

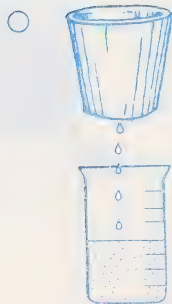
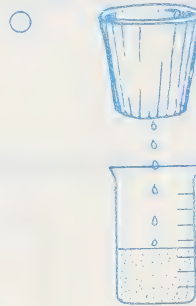
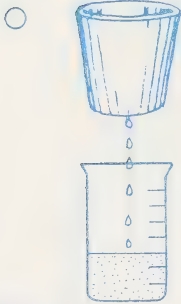


2 min



3 min

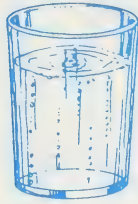
Which picture shows the jar after 4 minutes?



19.



milk



water



coffee



pink lemonade

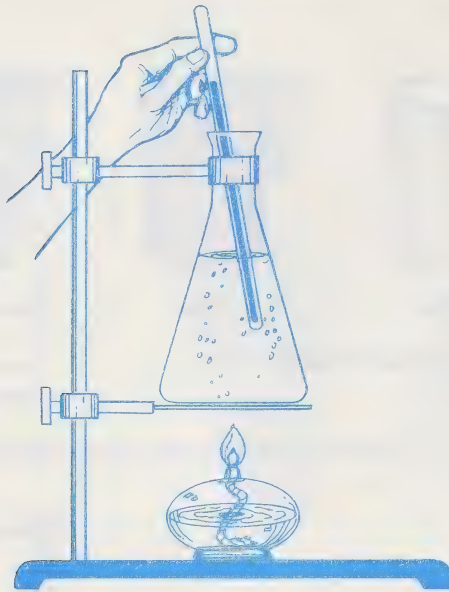
Predict which glass will have the lightest shadow.

- Milk
- Water
- Coffee
- Pink lemonade

Go on to the next page



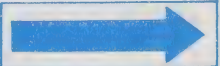
20.



As the water is heated, the liquid in the thermometer will

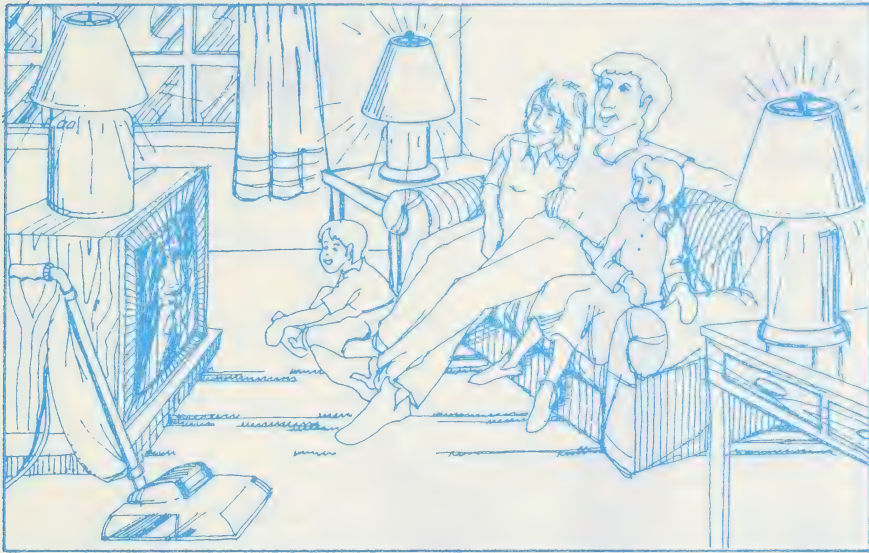
- boil
- drop
- expand
- contract

Go on to the next page





21.



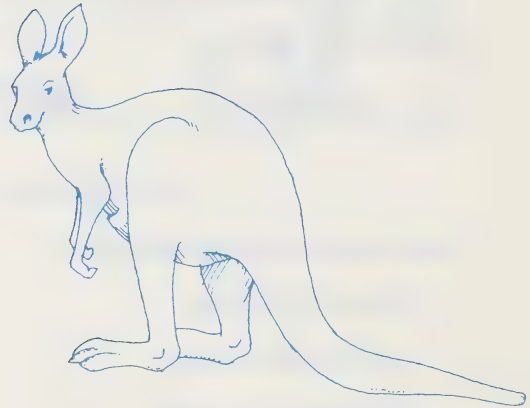
Energy could be saved if the family

- moved the television
- turned off some lights
- turned up the thermostat
- unplugged the vacuum cleaner

Go on to the next page



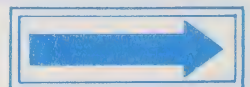
22.



These animals belong in the same group because they all

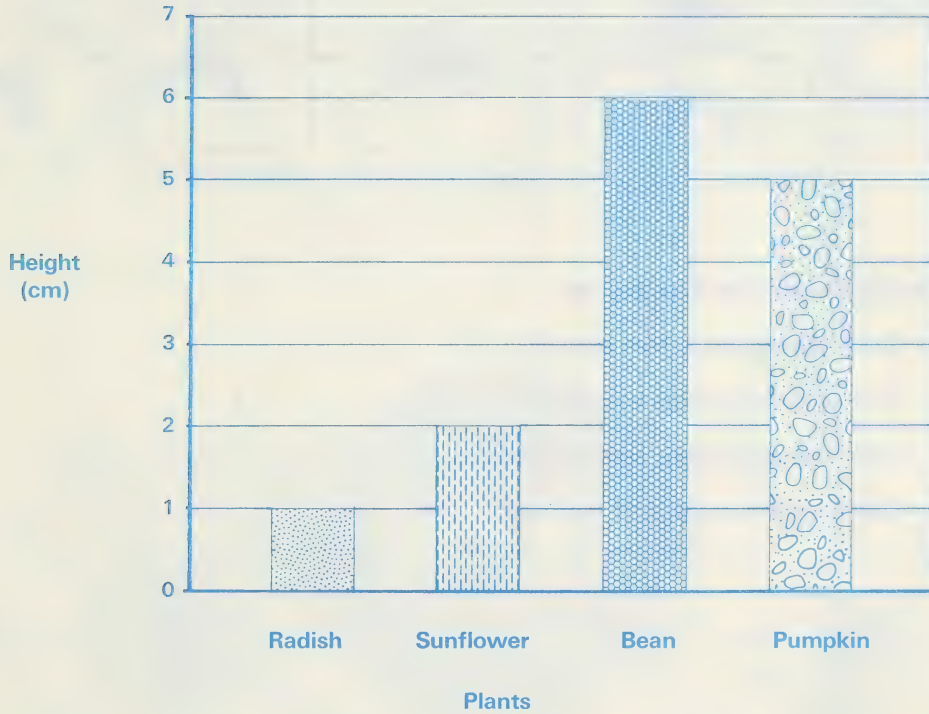
- care for their young
- move in the same way
- eat the same type of food
- live in a forest community

Go on to the next page



23.

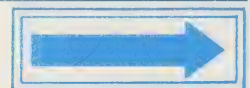
## Height of Plants



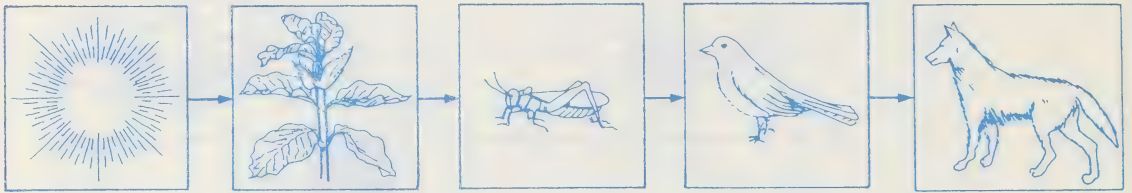
Which is true?

- The bean plant is 2 cm taller than the pumpkin plant.
- The pumpkin plant is 5 cm taller than the radish plant.
- The sunflower plant is 3 cm shorter than the bean plant.
- The radish plant is 1 cm shorter than the sunflower plant.

Go on to the next page



24.



This food chain shows us that the

- bird receives energy from the wolf
- insect receives energy from the bird
- insect receives energy from the plant
- plant receives energy from the insect

Go on to the next page



25.



Which order shows how this web was built?

- 2, 1, 4, 3
- 2, 1, 3, 4
- 1, 2, 4, 3
- 1, 2, 3, 4

Go on to the next page



**END OF SECTION 1**

**YOU MAY GO BACK AND CHECK YOUR ANSWERS TO  
SECTION 1, QUESTIONS 1 TO 25**



**DO NOT TURN THE PAGE UNTIL YOUR  
TEACHER TELLS YOU TO DO SO**

**SECTION 2**

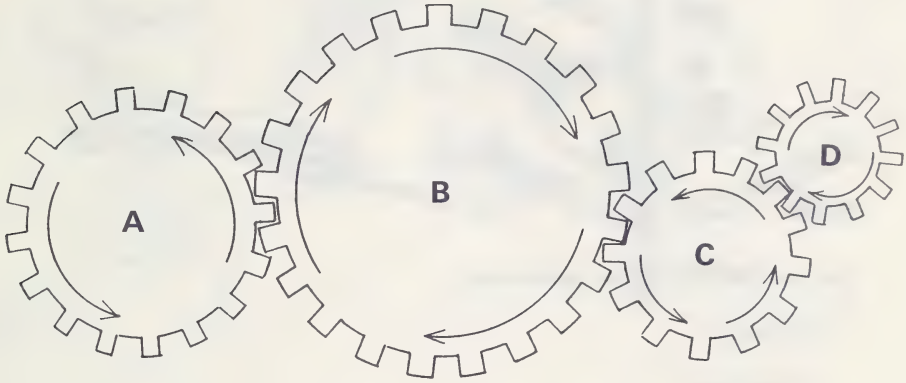
**YOU HAVE 25 MINUTES TO COMPLETE THIS SECTION**







26.



The gears that are turning in the same direction are

- A and B
- A and D
- B and C
- B and D

27.



Your sense of hearing tells you that a pickle is

- cold
- sour
- soft
- crunchy

Go on to the next page



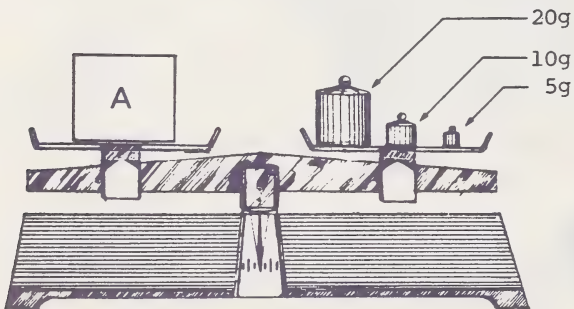
28.



You can **OBSERVE** that the mouse

- is hungry
- likes grain
- has a kernel of grain in its mouth
- will eat some of the kernels of grain

29.



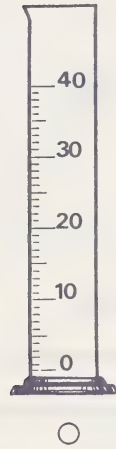
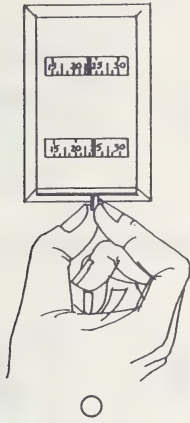
The mass of box A is

- 20 g
- 25 g
- 35 g
- 40 g

Go on to the next page



30. Which object would you use to find the temperature of water?

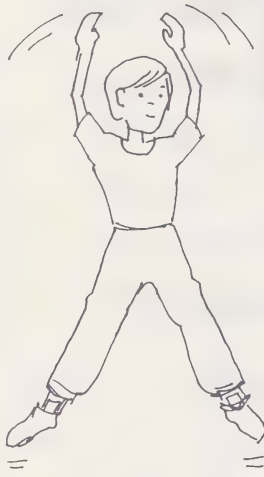



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31. Three students began exercising at 3:00 p.m.  
They stopped exercising at different times.

Start      Stop



Bob

Start      Stop



Janet

Start      Stop

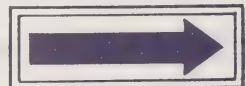


Rita

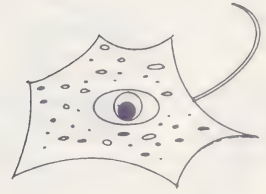
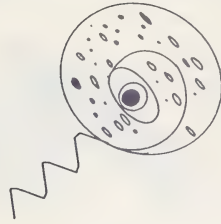
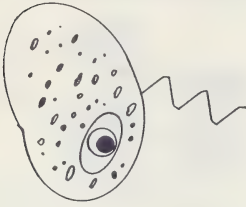
You can say that

- Rita's exercise time was shorter than Bob's
- Bob's exercise time was longer than Janet's
- Rita's exercise time was longer than Janet's
- Janet's exercise time was shorter than Rita's

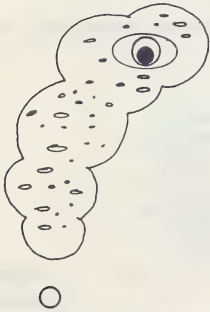
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32. These are gobats.



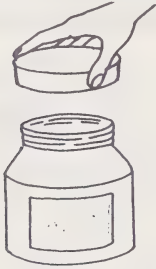
Which one of these is also a gobot?



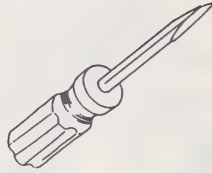
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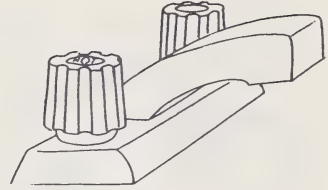
33. These objects belong in a group.



Jar lid

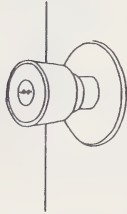


Screwdriver



Water taps

Which object also belongs in this group?



Doorknob



Glass of water

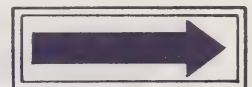


Paint can



Pipe

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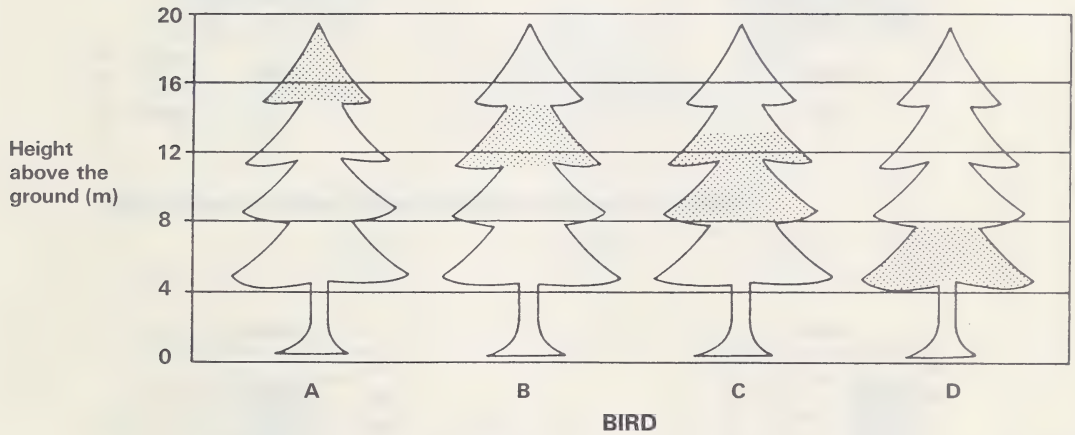



34. Susan found a leaf. It had jagged edges and one point at the tip of the leaf. Which leaf did Susan find?



35. This chart shows where four different birds find their food.

Location of Food for Birds

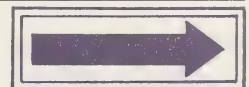


 = where birds find their food

Which two birds find their food at 12 m above the ground?

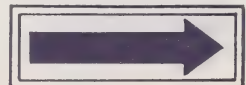
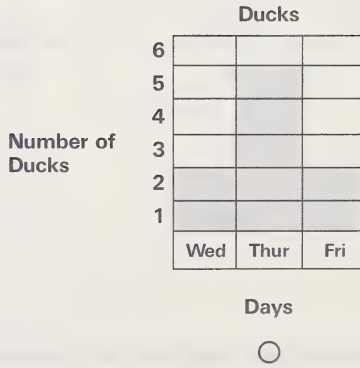
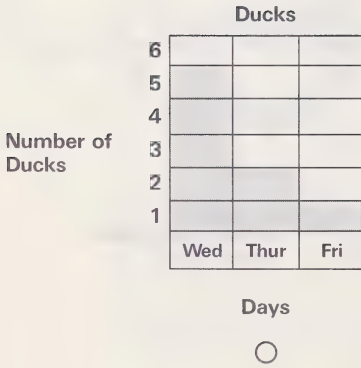
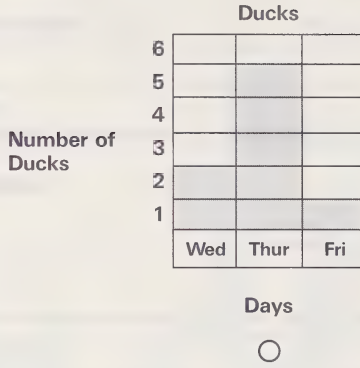
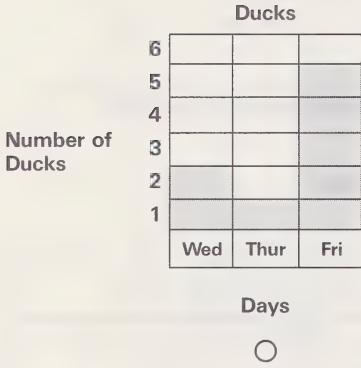
- A and B
- B and C
- B and D
- C and D

Go on to the next page



36. It is the fall season of the year.  
 On Wednesday Dena saw 2 ducks.  
 On Thursday she saw 5 ducks.  
 On Friday she saw 1 duck.

Which graph shows the number of ducks Dena saw?





37.



F = frog  
T = tadpole  
E = egg

Which group of letters shows the picture from left to right?

F, E, T, F, T

E, T, F, F, T

E, T, F, T, F

F, E, T, T, F

Go on to the next page



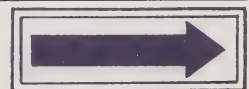
38.



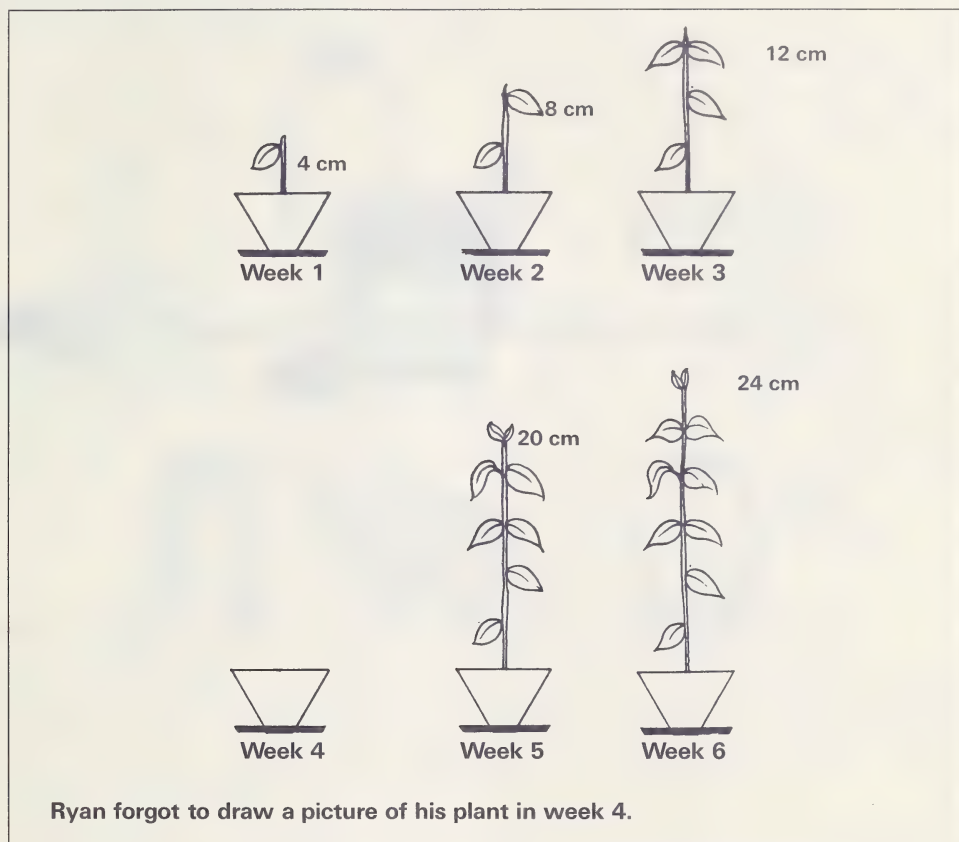
**Why did the shadows disappear?**

- It was nighttime.
- A cloud hid the sun.
- The tree hid the sun.
- The girl turned around.

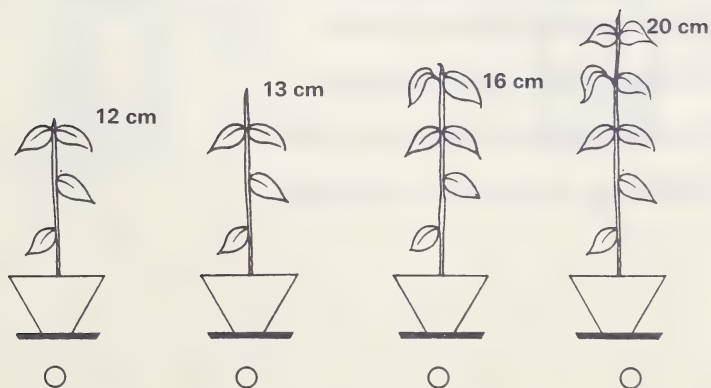
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39. Ryan drew pictures of his plant every week for six weeks.



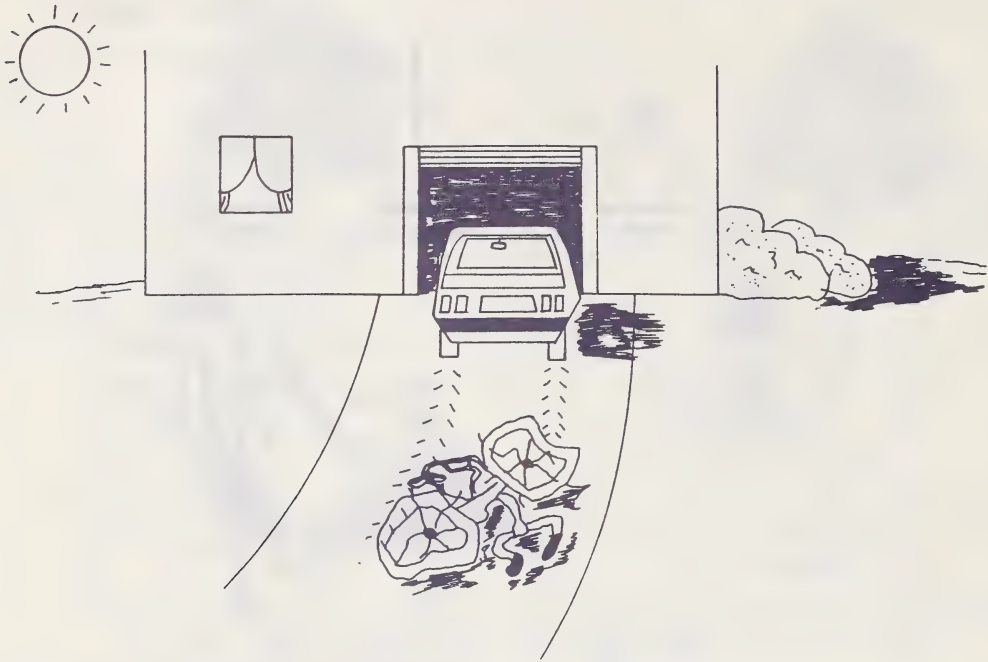
Which drawing most likely shows his plant in week 4?



Go on to the next page



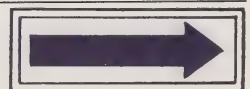
40. Look at this picture.



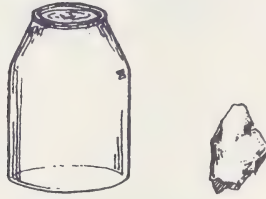
What could most likely be said about it?

- Tom smashed his bike with a hammer.
- Tom didn't put his bike away last night.
- Tom will be happy when he sees his bike.
- Tom will be riding his bike to school today.

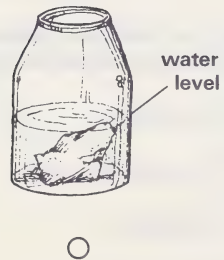
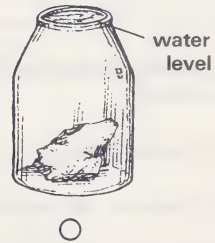
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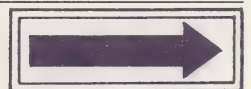
41. The jar is full of water.



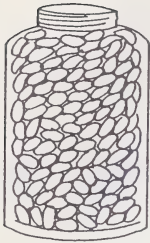
What will likely happen when the rock is put into the jar of water?



Go on to the next page



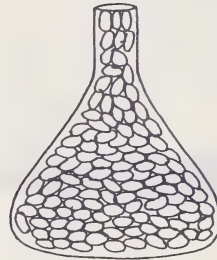
42. These three containers are filled with jelly beans.



1



2



3

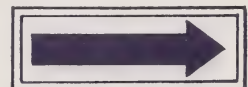
Jody thinks container 2 holds the most jelly beans. To find out she should

- measure the top of each container
- measure the height of each container
- count the jelly beans in each container
- take 10 jelly beans out of each container

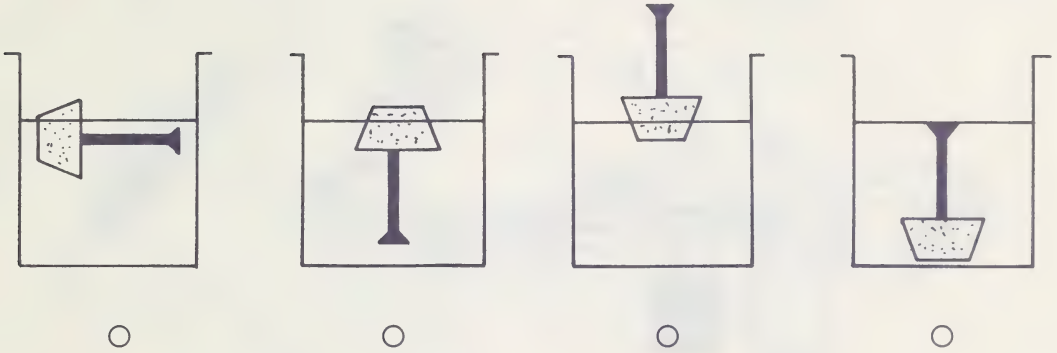
43. Sam and Joe each caught a fish. Sam predicts his fish is heavier than Joe's. Sam will test his prediction by

- weighing
- guessing
- grouping
- estimating

Go on to the next page



44. Tim pushed a nail into the centre of a cork.  
Then he placed the cork in a glass of water.  
Which picture shows what would likely happen?



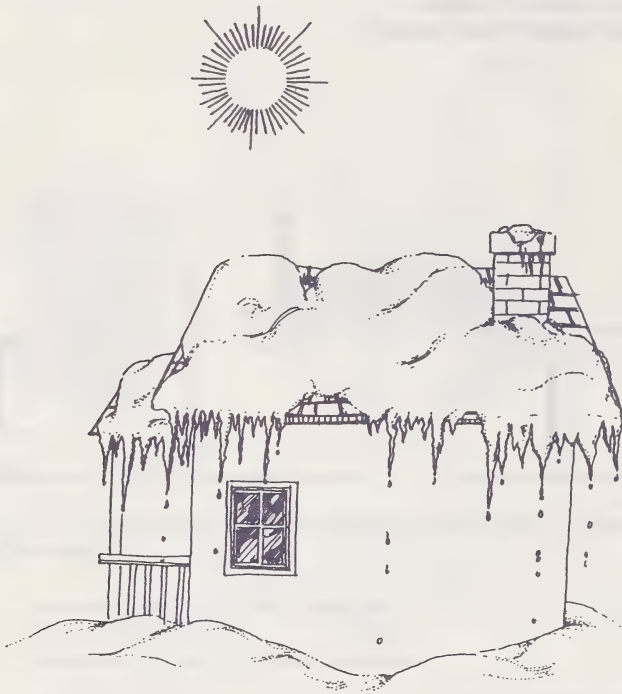
45. Which sentence is true about all non-living things?

- They cannot have babies.
- They cannot float.
- They need light.
- They need food.

Go on to the next page



46.



The picture above shows a change from a

- gas to a solid
- gas to a liquid
- liquid to a solid
- solid to a liquid

Go on to the next page





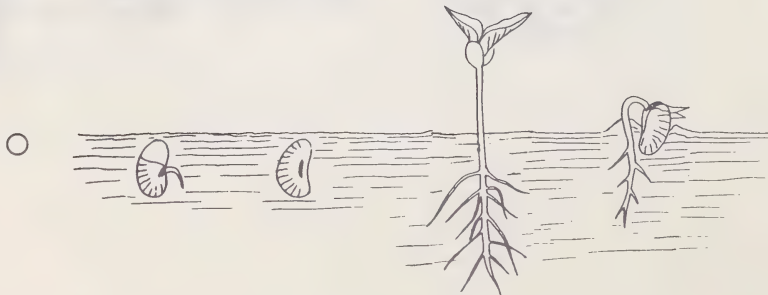
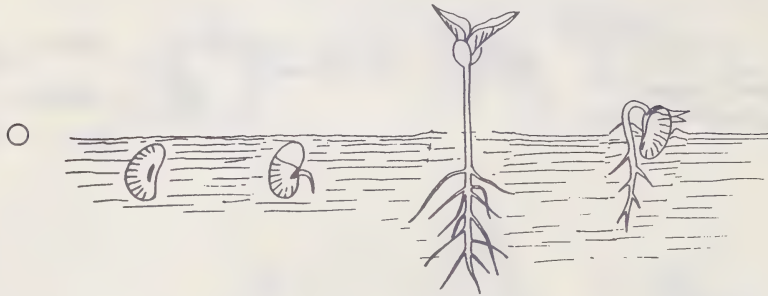
47. Which group contains living things only?



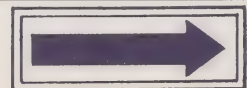
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48. Which diagram shows the order in which beans grow?



Go on to the next page



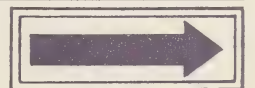
49.



What changes have taken place?

- The cabin has been moved and a house built.
- Some trees have been cut down and a house built.
- The pond has been made bigger and a house built.
- The water level has been changed and a house built.

Go on to the next page



50. Which order is correct?



Go on to the next page



**END OF SECTION 2**

**YOU MAY GO BACK AND CHECK YOUR ANSWERS  
TO SECTION 2, QUESTIONS 26 TO 50**





GRADE 3 SCIENCE ACHIEVEMENT TEST

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